

**Nuclides Analysis Result of the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility**

I-131(Bq/cm<sup>3</sup>)

| Sampling Location | Aug 4 | Aug 5 | Aug 6 | Aug 7 | Aug 8 | Aug 9 | Aug 10 | Aug 11 | Aug 12 | Aug 13 | Aug 14 | Aug 15 | Aug 16 | Aug 17 | Aug 18 | Aug 19 | Aug 20 | Aug 21 | Aug 22 | Aug 23 | Aug 24 |
|-------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ①                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ②                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ③                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ④                 | -     | -     | -     | -     | -     | -     | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| ⑤                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑥                 | -     | ND    | -     | -     | -     | -     | -      | -      | ND     | -      | -      | -      | -      | -      | -      | ND     | -      | -      | -      | -      | -      |
| ⑦                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑧                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑨                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |

Cs-134(Bq/cm<sup>3</sup>)

| Sampling Location | Aug 4 | Aug 5 | Aug 6 | Aug 7 | Aug 8 | Aug 9 | Aug 10 | Aug 11 | Aug 12 | Aug 13 | Aug 14 | Aug 15 | Aug 16 | Aug 17 | Aug 18 | Aug 19 | Aug 20 | Aug 21 | Aug 22 | Aug 23 | Aug 24 |
|-------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ①                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ②                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ③                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ④                 | -     | -     | -     | -     | -     | -     | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| ⑤                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑥                 | -     | ND    | -     | -     | -     | -     | -      | -      | ND     | -      | -      | -      | -      | -      | -      | ND     | -      | -      | -      | -      | -      |
| ⑦                 | 0.1   | 0.061 | 0.045 | 0.071 | 0.079 | 0.068 | 0.037  | 0.058  | 0.051  | 0.063  | 0.087  | 0.044  | 0.052  | 0.038  | 0.062  | 0.072  | 0.043  | 0.035  | 0.042  | 0.051  | 0.05   |
| ⑧                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑨                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |

Cs-137(Bq/cm<sup>3</sup>)

| Sampling Location | Aug 4 | Aug 5 | Aug 6 | Aug 7 | Aug 8 | Aug 9 | Aug 10 | Aug 11 | Aug 12 | Aug 13 | Aug 14 | Aug 15 | Aug 16 | Aug 17 | Aug 18 | Aug 19 | Aug 20 | Aug 21 | Aug 22 | Aug 23 | Aug 24 |
|-------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ①                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ②                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ③                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ④                 | -     | -     | -     | -     | -     | -     | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| ⑤                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑥                 | -     | ND    | -     | -     | -     | -     | -      | -      | ND     | -      | -      | -      | -      | -      | -      | ND     | -      | -      | -      | -      | -      |
| ⑦                 | 0.24  | 0.14  | 0.077 | 0.16  | 0.17  | 0.13  | 0.084  | 0.15   | 0.12   | 0.13   | 0.19   | 0.094  | 0.12   | 0.074  | 0.13   | 0.13   | 0.085  | 0.1    | 0.12   | 0.13   | 0.12   |
| ⑧                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |
| ⑨                 | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND     |

\* Hyphen "-" indicates that neither sampling nor measurement was implemented.

\* ⑥ was selected as a sampling location in the upstream of groundwater (sampling done once a week starting from April 29, 2011) since it became unable to do sampling at ④.

\* Sampling at ⑦ (located in the downstream of the groundwater) has been done since May 26, 2011.

\* Sampling at ⑧ since May 30, 2011

\* Sampling at ⑨ has been done since August 2, 2011

\* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 0.01Bq/cm<sup>3</sup>, Cs-134: Approx.0.02Bq/cm<sup>3</sup>, Cs-137: Approx.0.02Bq/cm<sup>3</sup> (August 24, 2013)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

<Place of Sampling>

- ① Southeast of Unit 4 Turbine Building
- ② Northeast of the Process Main Building
- ③ Southeast of the Process Main Building
- ④ Southwest of the Process Main Building
- ⑤ South Part of the Miscellaneous Solid Waste Volume Reduction Treatment Building
- ⑥ Southwest Part of the On-site Bunker Building
- ⑦ West Side of the Incineration Workshop Building
- ⑧ North Part of the Miscellaneous Solid Waste Volume Reduction Treatment Building
- ⑨ Southeast Part of the On-site Bunker Building